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Communications, Computers and Signal Processing, 1993., IEEE Pacific Rim Conference on , Volume: 1 , 19-21 May 1993


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A new source coding method based on LZW adopt the least recently used deletion heuristic

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Dept. of Electr. Eng., Keio Univ., Yokohama;

This paper appears in: Communications, Computers and Signal Processing 1993., IEEE Pacific Rim Conference on

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Abstract:

A new source coding method based on the Lempel-Ziv-Welch (LZW) method assigns variable-length codewords instead of LZW's fixed-length codewords. The proposed method has a least-recently-used (LRU) deletion heuristic queuing each entry of which has a different parsed string. The queuing buffer is sorted according to the move-to-front rule for each time of encoding/decoding. The proposed method yields better performance in terms of compression ratio with degradation of the characteristics of LZW

Index Terms:

Lempel-Ziv-Welch method buffer storage compression ratio data compression data structures heuristic programming least recently used deletion heuristic move-to-front performance queueing theory queueing buffer sorting source coding variable length codes variable-length codewords Lempel-Ziv-Welch method buffer storage compression ratio data compression data structures heuristic programming least recently used deletion heuristic move-to-front rule performance queueing theory queueing buffer sorting source coding variable length codes variable-length codewords

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